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Control of Mind using Nanotechnology

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Prithiv K R Kumar^{1*} and Albert Alukal²

¹Director, Principle Scientist- Poichyadical Stem Cell Centre for Research and Development (POSCERD) Chicago, CEO- Lazer Health Care, Chicago, USA

²Junior Scientist- Poichyadical Stem Cell Centre for Research and Development(POSCERD), Medical Officer- Lazer Healthcare, Chicago, USA

*Corresponding Author: Prithiv K R Kumar, Director, Principle Scientist-Poichyadical Stem Cell Centre for Research and Development (POSCERD) Chicago, CEO-Laâ€™z Health Care, Chicago, USA

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Abstract

Mind argumentation is an important parameter which is difficult to analyse. With the basics of technique, it will be a highly impossible task. Hence a technology as powerful as Nano is desired to attain limitless combination or function and properties of nervous cells. Nano particles have different materials, size and shapes. Size ranging from 1-100nm, shape of tubes, spheres, single, double or multiple layers, fullerenes with or without branches and materials such as carbon, metal, ceramic, semiconductors, polymers and lipids. How does that control the mind? Nanotechnology is a game changer in pharmaceutical industry, drug delivery system, Nano sized capsules and medical tools. Having this massive knowledge, nanotechnology can be used in neural tissue growth, also adapts devices for interference of neural networks. The application to neural cells leads to image mapping and delivery therapy. Image mapping is focused on central nervous system, also paving way for innovative image mapping technology. Nano particles play a common role in anatomic and physiologic compartments, i.e.) blood-brain barrier ([BBB]). There are challenges in design of Nano particle relating to brain. Especially Nano medicine where technique is involved and the role function in which these Nano particles apply to central nervous system (CNS) and imaging of CNS. BBB is more complex structure in the entire body, they protect the CNS and they help in movement of ions and even smaller macromolecules from blood to brain. This review will focus on the imaging of CNS and augmentation of brain. It speaks volume about control of mind through imaging and blood barrier supporting CNS.

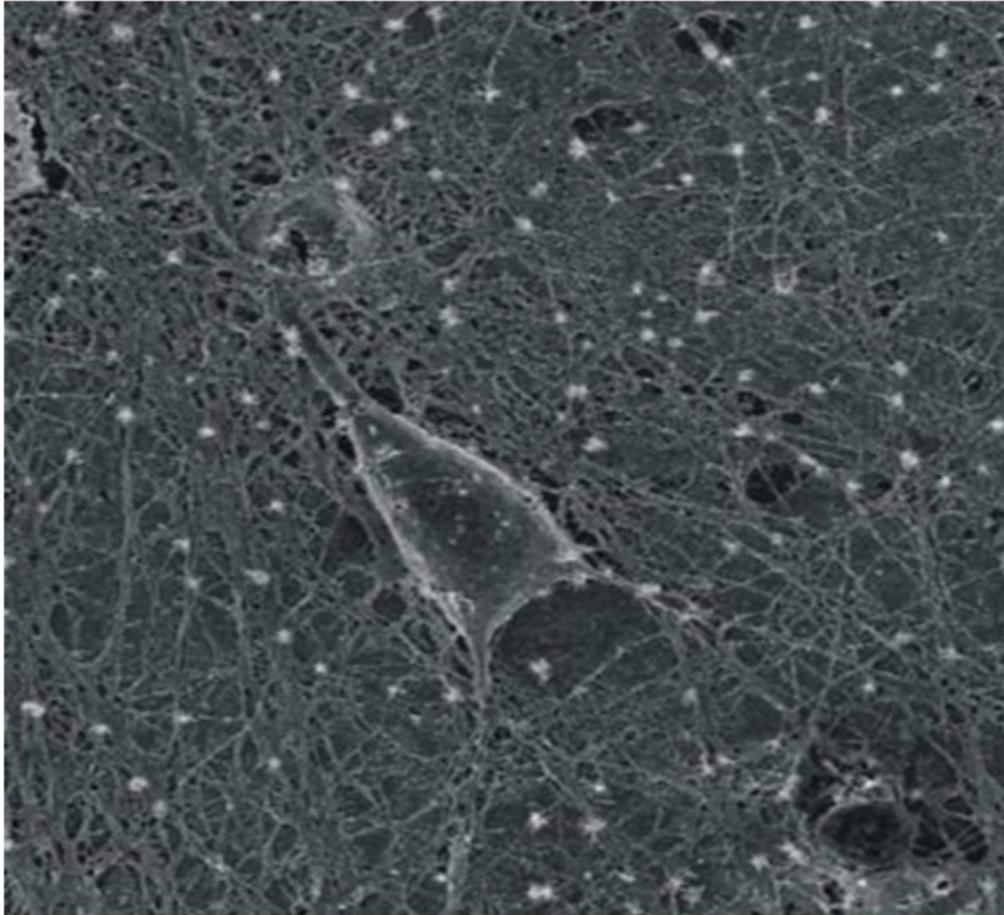
Keywords

Nano-medicine; Stem cells; Nanotechnology; Brain.

Introduction

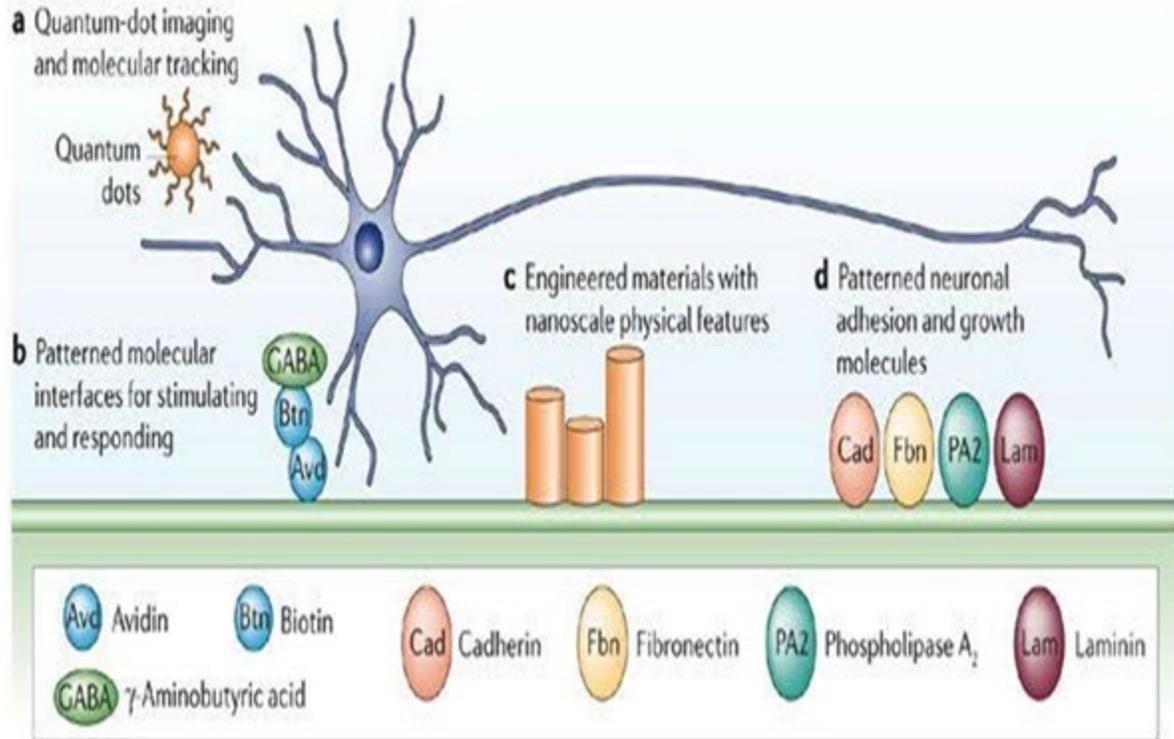
Understanding the module of brain activity, neuroscience has a long-standing leverage on brain activity. They deliver biocompatible ultrasound induced imaging for development of uncaged drug [1]. The image of mind control part of the brain [1].

Figure 1: The image of mind control part of the brain.



However, there are secondary effects in the brain that maps the changes in functional network where drugs are targeted to particular part in brain. This is the neuromodulation of the brain. It is invasive and compelling part, allowing control of varies modes in communication[3]. Below figure shows the nanomaterials inducing nervous growth[2].

Figure 2: The Nanomaterials inducing nervous growth.



We further demonstrate curing of neuroscientific injuries using drug, that derives secondary changes in the brain, these changes are directly linked with local stimulus of targeted regions in the central nervous system[3]. Thus, brain augmentation is an uphill task, with several counterports adapted in order to create a grey area. Further vision of nano implants in the brain could alter the way brain works. It has its own biochemical benefits which help in providing proper nutrition and food for the brain[20]. There can be mental implications to the organic and neural complexity to the brain. Thus, innovative technology is further discussed to controlling of mind[4]. Below figure indicates mind can be controlled through innovative technology[6].

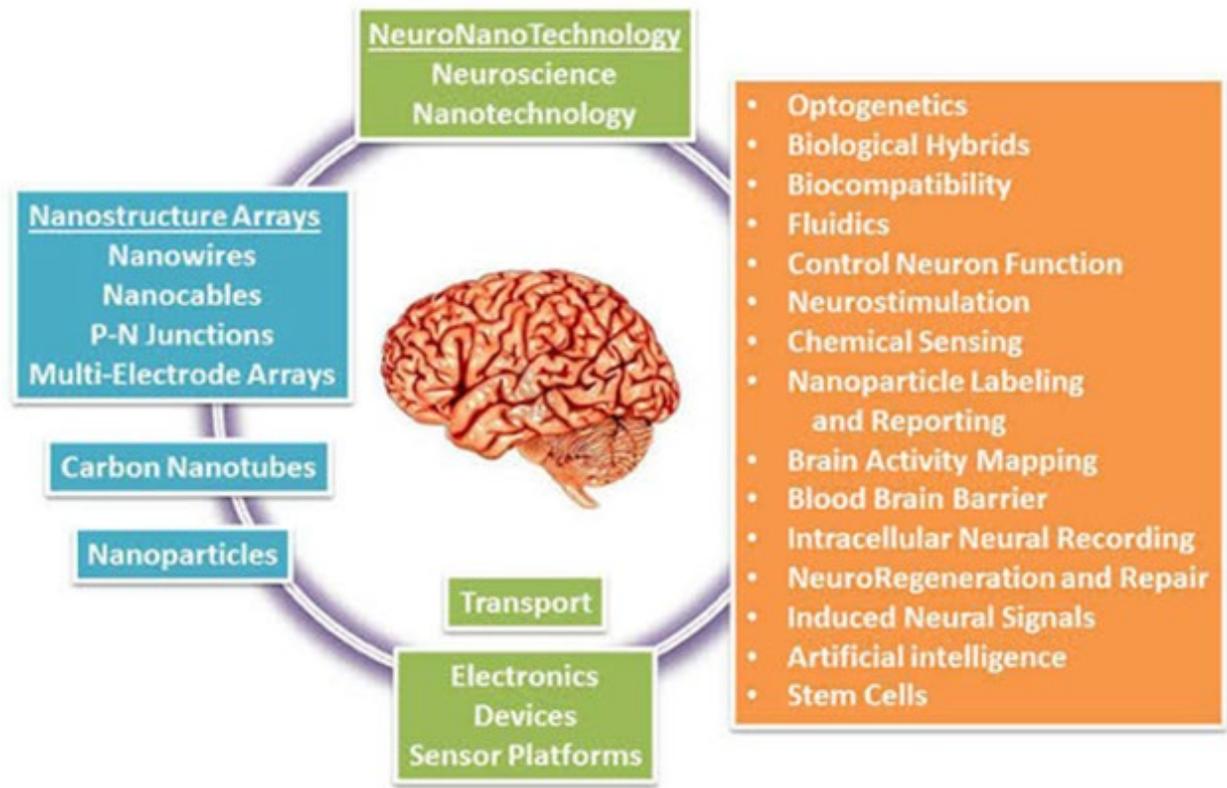
Figure 3: Indicates mind can be controlled through innovative technology.



Educating Brain Augmentation

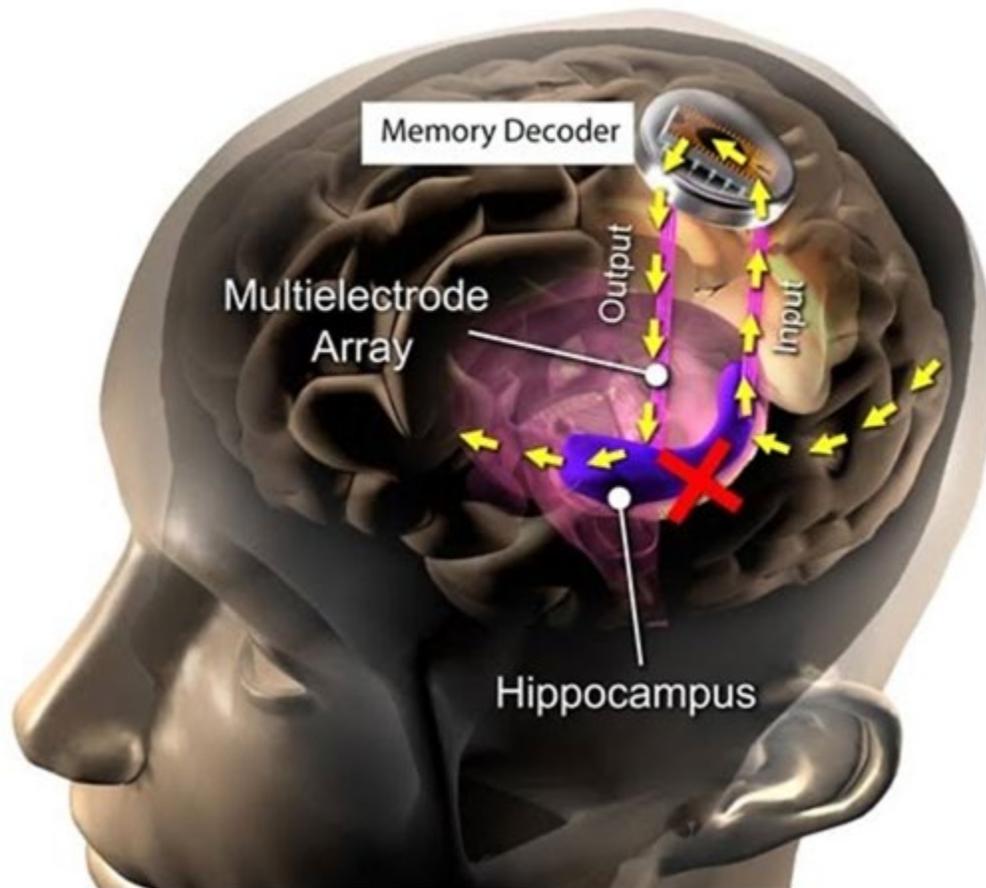
It is important to argue about knowledge in organic and complexity of thinking. The thrive to achieving the desired knowledge in cognitive level of individuals is a primordial factor in brain cells[24]. This level in brain supersedes the previous instincts, thus suggesting the improvements in developing nanomaterials for brain augmentation. These practises are often given hope to clear understanding of an individual mind[5]. Below figure indicates the neuronano technology for brain augmentation[7].

Figure 4: Indicates the neuronano technology for brain augmentation.



Different generations from primitive era, helped us in understanding the pinnacle of brain and its functions[8]. Learning from peers led to the elaborate understanding of intelligence in each individual. Thus neuroscience has gradually evolved from understanding intelligence level to mapping and recording patterns minute after minute[7-9]. Even the thinking has evolved through brain wave techniques associated with individual behavior. The goal is to achieve the visualization of mind and its thoughts while recording brain waves[8]. During the experiment, many structural and behavioral changes occur in brain topography. The physical changes occurring in the brain could count for the invasive and pharmacological techniques in improving our memory and intelligence[9]. Below figure shows the map of brain augmentation, memory decoder[10].

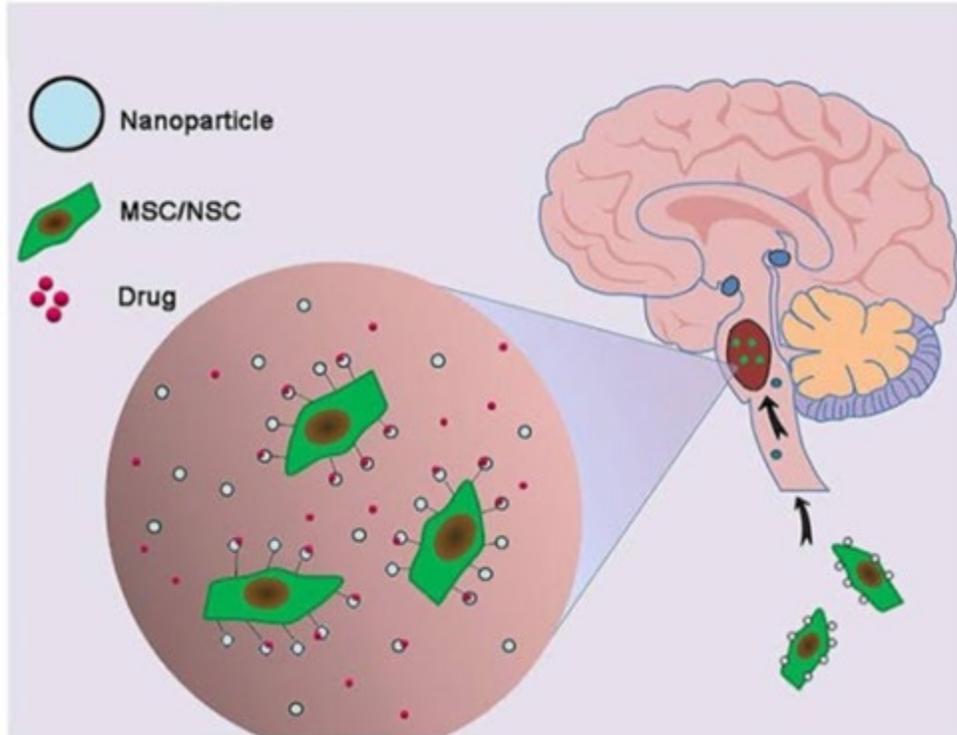
Figure 5: The map of brain augmentation, memory decoder.



Behavior of Brain cells

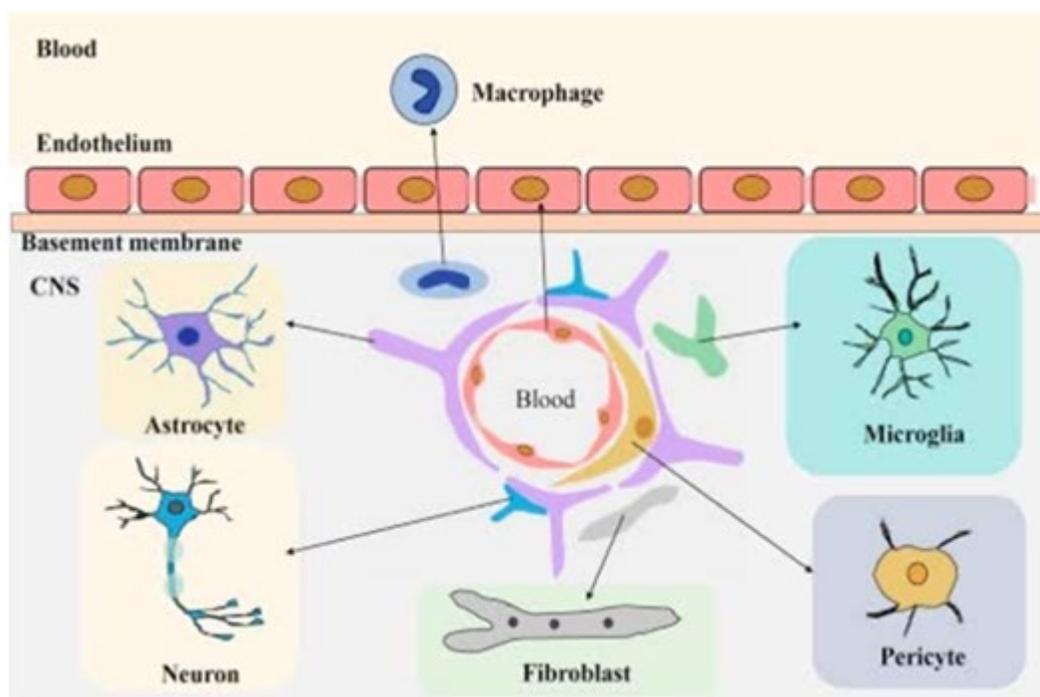
Cells in the brain do not differentiate between taught and self-learned. They are trained to perform repeated tasks, with some analyses[11]. Some tasks have been asked to perform under constant monitoring of cerebral structure throughout the trial. Constant behavioral changes have been noticed in prefrontal cortex region, thus increasing the grey matter[13] Changes also observed in right hippocampal region and cerebellum, thus giving an indication to transition of understanding mind. The significant increase in grey matter also indicates that the can be working towards increasing mental capabilities, motor skills, navigation skills and also improving thinking coupled with skills for knowledge and playing games[12].Below shows nanoparticle inside brain to activate control of mind[14].

Figure 6: Nanoparticle inside brain to activate control of mind.



Nanoparticles alter the way the drugs attribute to their delivery[16]. They target the specific areas of the body, help in permeability factors in order to program the release of the drug. The mechanism is usually controlled by reactions of chemical engines linked to magnetic particles to put through external signals[15]. They also significantly reduce side effects of the drugs injected via BBB barrier[17].Below is the figure for BBB pathway[19].

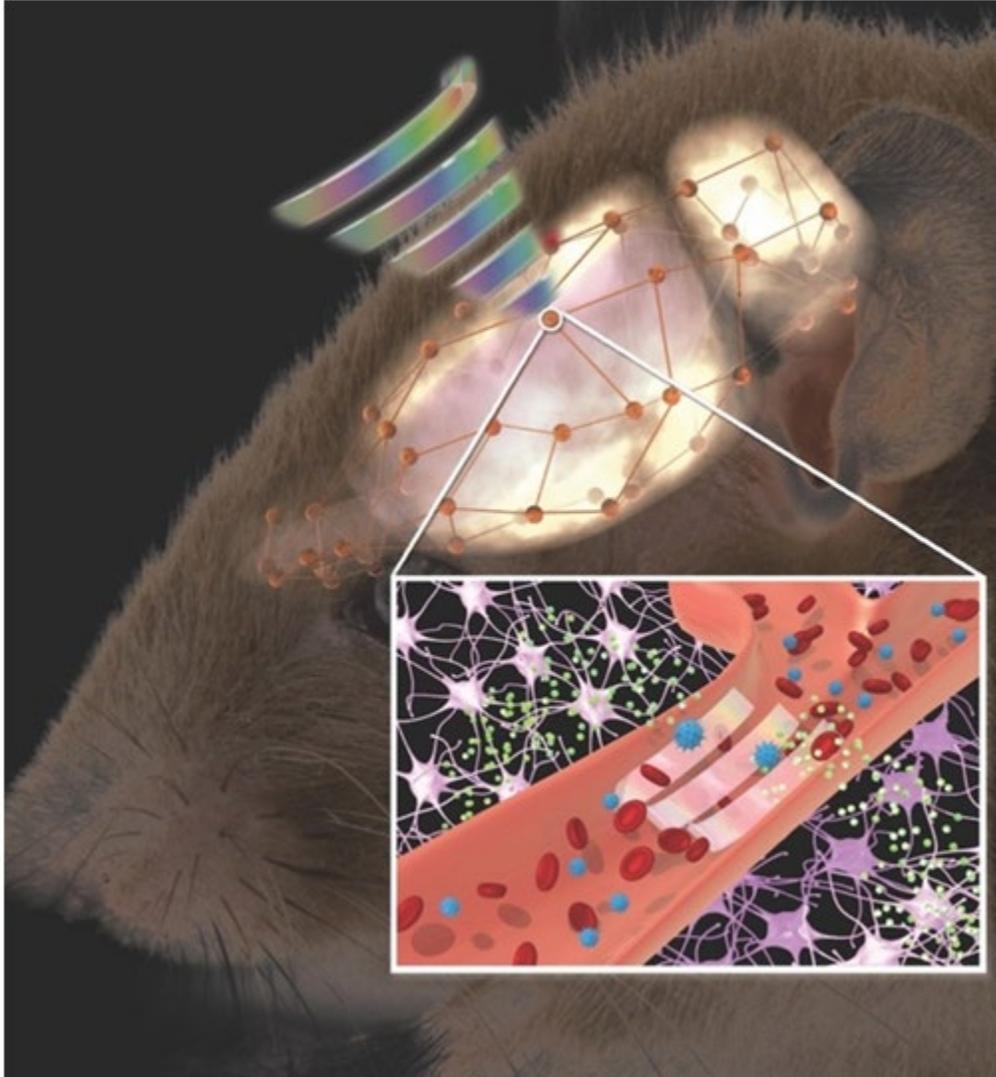
Figure 7: BBB pathway.



Nanoparticle and blood brain barrier transportation

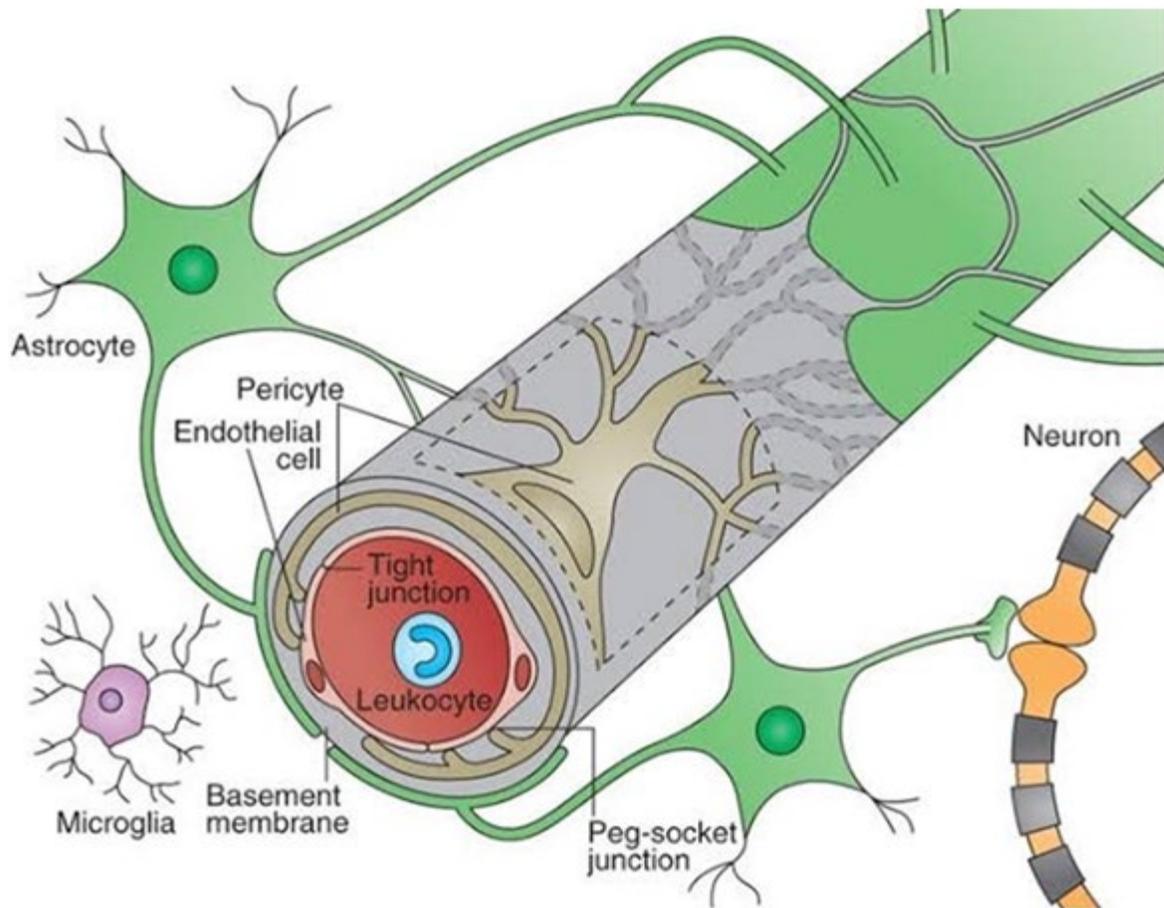
Psychological disorders, electric stimuli and drug pathways are also invasiveness for drug discovery[18]. Normal drug can't enter the blood brain barrier; hence nanocapsule plays a vital role in drug penetration through the barrier[20]. Recent studies have shown that nanocapsules are capable of penetrating the blood brain barrier with certain technology, namely ultrasonic waves[49]. Another study has shown that nanocapsules injected through plasma protein surfactants targets these polymeric nanoparticles to specific sites of barrier allowing it to release these drugs to brain[23] these technologies are hence named nanoencapsulation [21]. They are vastly used in rat models to test for the drug uptake and side effects owing to the drug uptake. These are also clinically tested to influence the central nervous system for drug reaching specific targets. Thus brain augmentation will be successful once drug penetrates blood brain barrier and reach the specific target[21-26]. Below shows the figure, nanocapsules testing on rats' blood brain barrier penetration is seen[24].

Figure 8: Nanocapsules testing on rats- blood brain barrier penetration is seen.



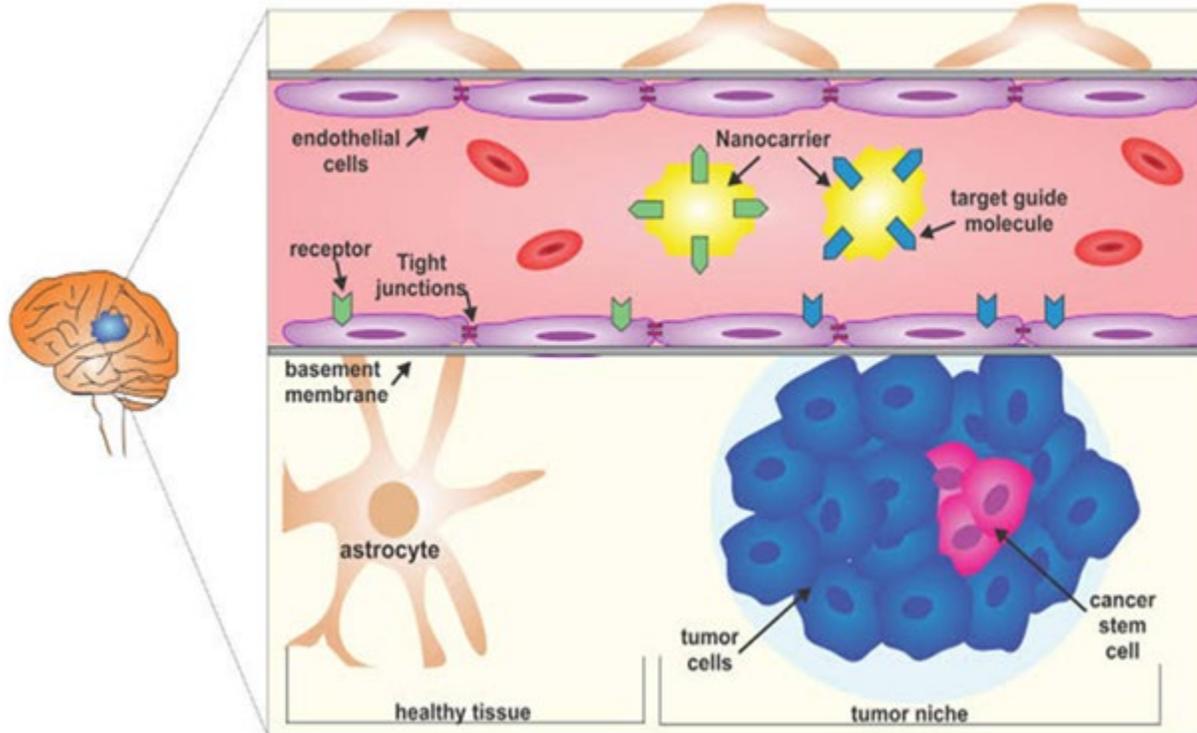
The blood brain barrier is an important component of brain. It is a complex system of cells namely endothelial, astroglia, pericytes, and perivascular mast cells. It is tightly bound and prevents passage of any cells circulating them. They are closely linked and are found in the vascular layer of the brain. The capillary junctions have tasks to perform. Task mainly to uphold the tightness in order to prevent the passage of any molecules or ions and movement of proteins between membranes of the blood brain barrier[25-28]. Before we go further, understanding of blood brain barrier is shown in the figure below[27].

Figure 9: Blood Brain Barrier.



The tight junctions are mainly the base membrane containing adhesion molecules along with some proteins. Adhesion is important to remove the lymphocytes and neutrophils and dendritic cells to brain from vascular junction. They are performed during surveillance response[27]. The interconnections of this BBB are highly compact that possible exchange is viable only through cellular body. Brain needs nutrients to enhance its capabilities[28]. Question arises in the entry of these nutrients to the brain. Nutrients such as glucose, amino acids, and ketones use specific transporters to reach brain[29]. BBB prevents uptake of any drugs, hence this Nano capsules were used. The size of these capsules is tiny in size and uses plasma coated surfactant surfaces to enter and target brain cells[31]. BBB has unique presence of glycoprotein pump allowing certain capillary cerebral drugs to enter and cure brain injury especially tumor or cancer cells. Nanoparticles always play a role in curing these cells[27]. Below is the figure showing the presence of nanoparticles entered through tight junction[30].

Figure 10: Showing the presence of nanoparticles entered through tight junction.

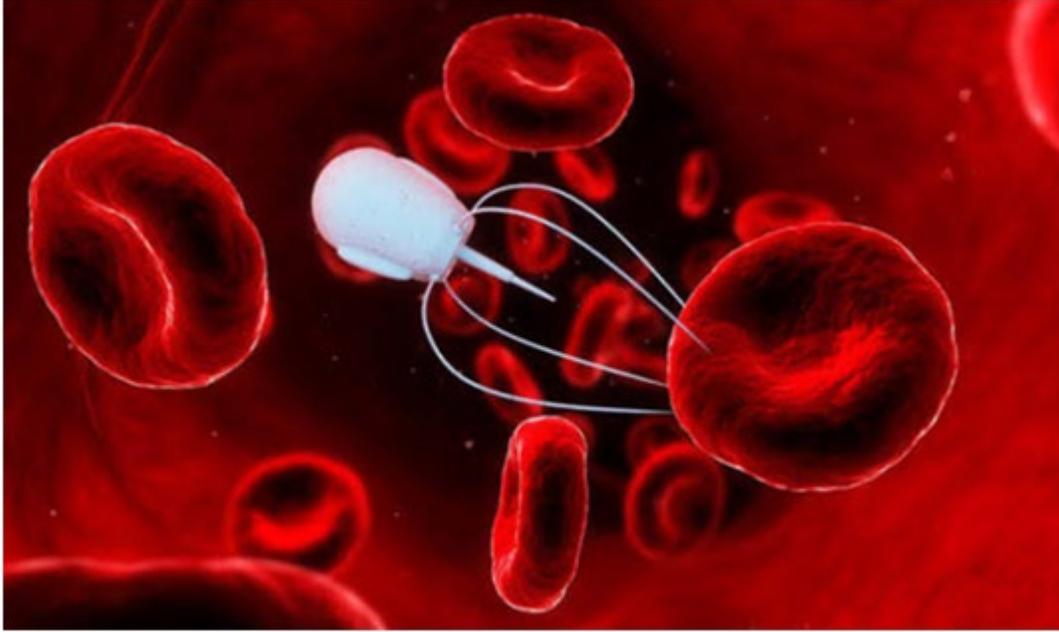


Alternate routes have been explored for drugs to enter the brain [32]. But older methods like modification of drugs, osmotic opening, and chemical composition have all been tried taking advantage of physiological carrier-based transport. Since the surface is limited, the quality and quantity of drugs are reduced [31-34].

Nanocapsule Implant for Mind Control

After thorough understanding of blood brain barrier, our focus lies in the drug design for mind control [35]. Since neurons have electrochemical nature in them, electrical impulsion and magnetic impulsions have a dedicated space in induction of drug. The electric and magnetic impulsion in brain is termed as neuromodulation, also called as deep brain stimulation(DBS)[37]. Neuromodulation is a method for implant of nanoparticles in the size range of 22 nm. They are coated with polymer to increase the compatibility while dispersing through blood brain barrier. Many experiments have been conducted in mice, and these implants have attained the targeted sites for mind modulation. Some other study also added that nanoparticle can stay for a month long in brain and provides ling lasting success in neuromodulation[37-45].They also prove to be a game changer economically. Below figure shows you nanoparticle in blood of brain[34].

Figure 11: Nanoparticle in blood of brain.

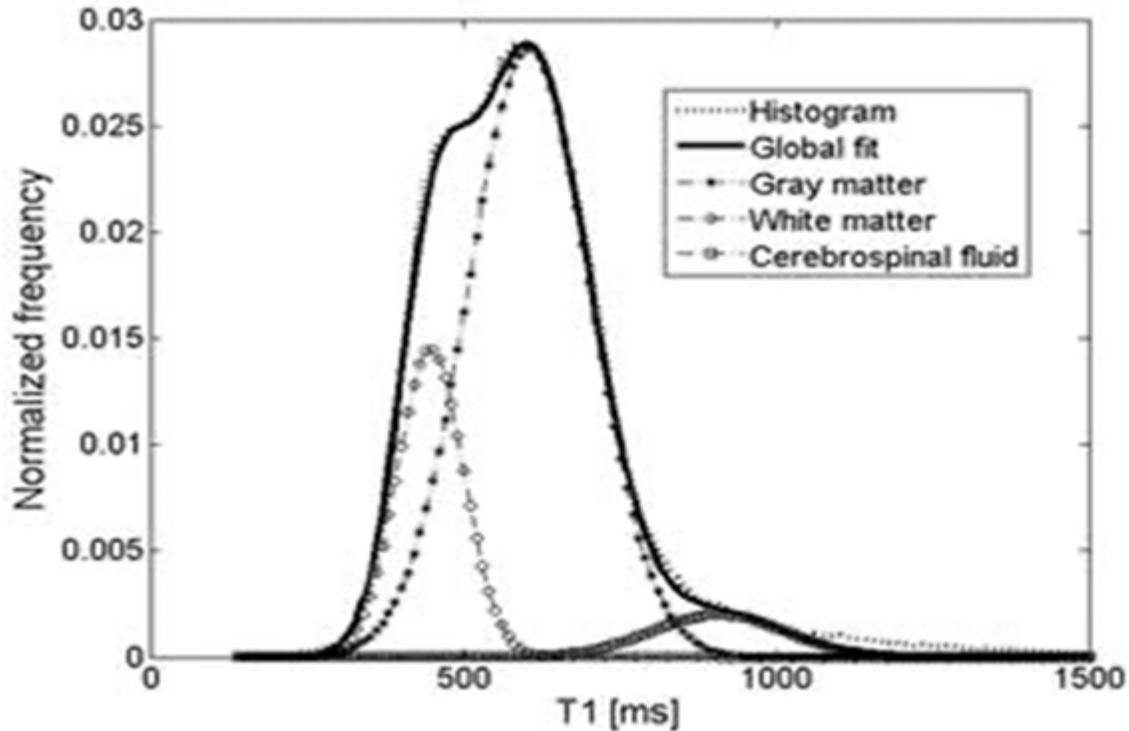


Brain trauma often can show symptoms of psychological effects and also can display holes in the grey matter. They affect the central nervous system and also are capable of inducing tissue repair in the brain[35]. Ordinary drug treatments have proved ineffective to treat these problems[34]. Some studies have shown nanocapsules have been vital in curing these injuries and also help in designing of the drug for future treatment. They also help in creating a cushion layer for brain treatment[40].

Brain Augmentation

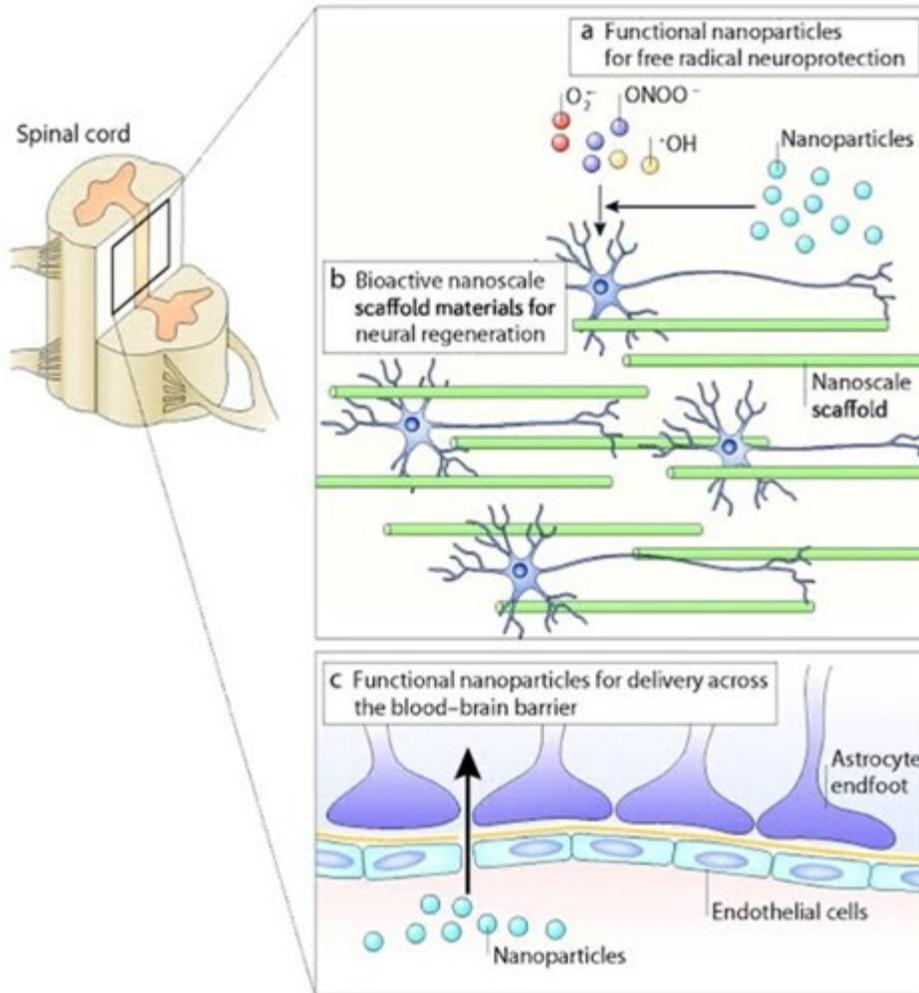
There have been discoveries for development of tissue in grey matter[41]. Generally, tissues deform when conditions are suitable to grow. If glial cells are not formed properly, they could potentially degrade the nerve cells leading to stroke. Hence scientists opt for the usage of nanoparticles. They have precision drug targets and also help in curing brain damage[42]. Below is the graph representing nanoparticles behavior in the brain. T1 representing time[43].

Graph 1: Representing nanoparticles behavior in the brain.



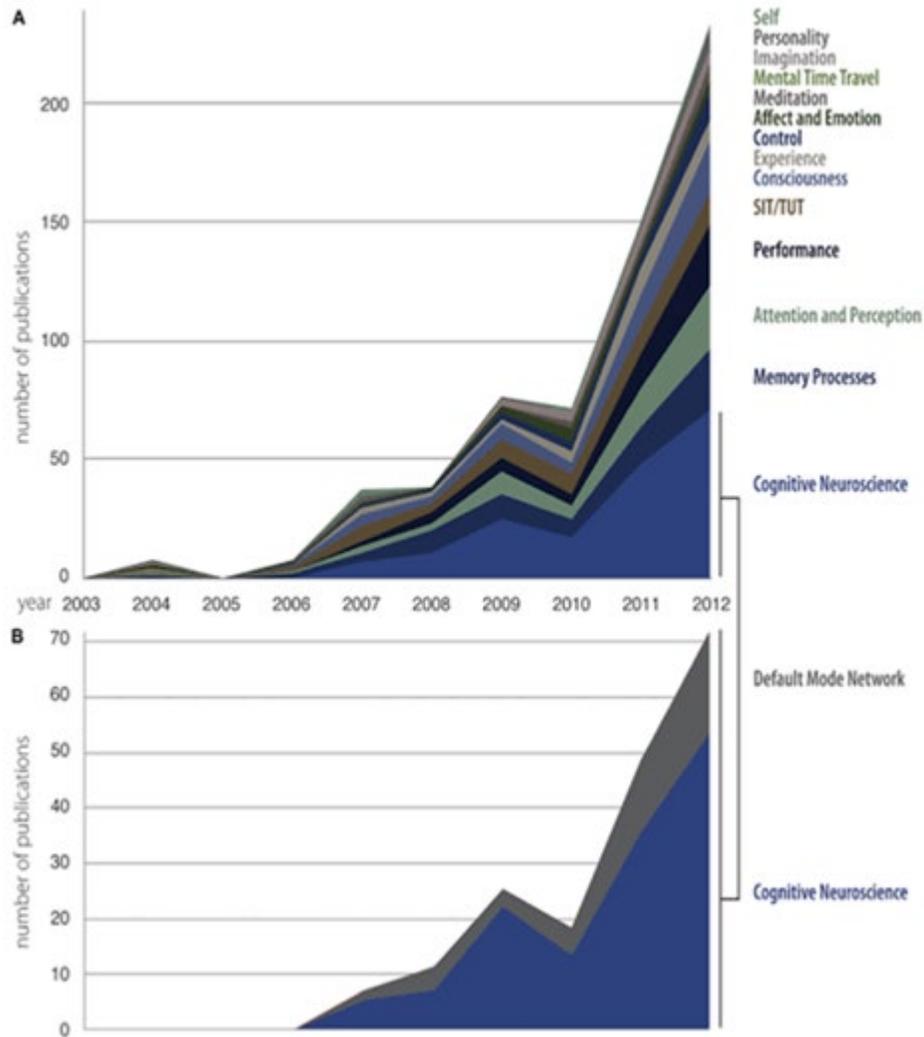
Understanding the pattern of nanoparticle in the brain, tissues culture accordingly to load the Nano gel in injection and injected into the brain cells [44]. These Nano gel target the specific part of the brain converting the under developing brain regions into mature cells via stem cell regeneration. Culturing the tissue outside the body is to help grow neurons accordingly to the environment of the brain tissue [45]. This method generally tends to adapt to the brain cells giving it a total control of nervous region. Brain cells then surround the gel which form wire like structures. These wire-like structures are called nanowires [49]. These nanowires can help in the sending electrical signals in order for development of neurons and muscle cells. They also help in monitoring ph levels in the cells [46]. This model of development enhances our knowledge to augment the brain of an individual. They also help in artificial intelligence by melding organics and understanding neurons and its neural networks[37]. The nanowires unravel the complete working of mammalian brain. It is relatively safe method as they have been used before to treat Parkinsonâ€™s disease[47]. Below figure shows nanoparticles in brain function [50].

Figure 12: Nanoparticles in brain function.



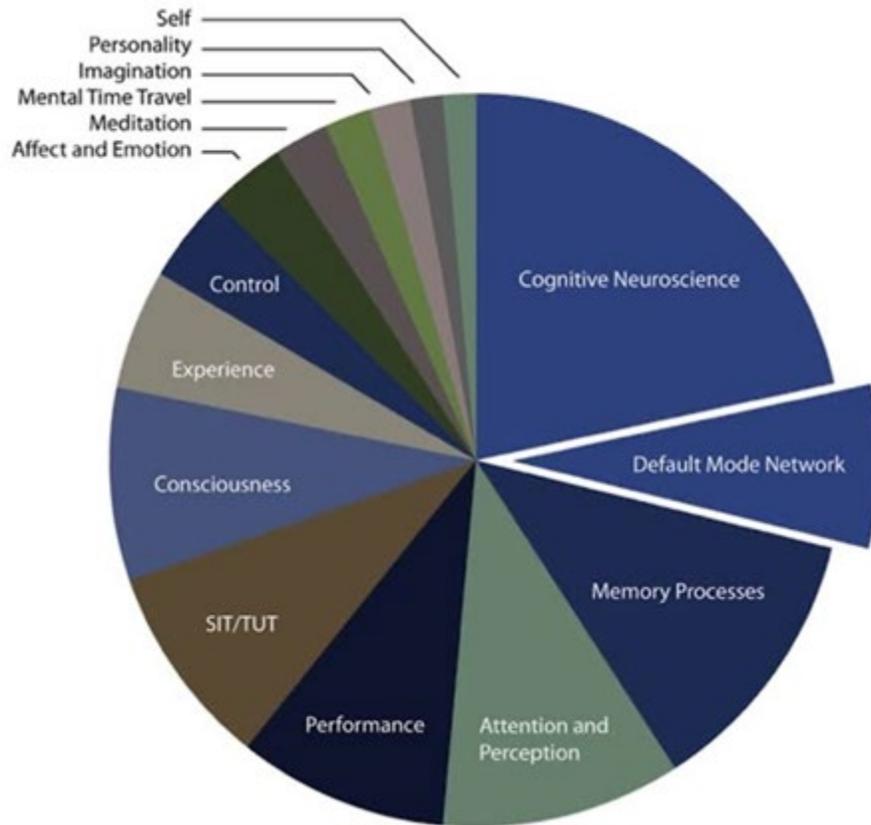
There has been a study that the device can measure dopamine part in the brain called caudate nucleus, and subthalamic nucleus in another part of brain. This sequence helps us understand DBS. They also help in monitoring neurochemicals that senses the pain [48] there is also another team working on healthy and disorder part of the brain using chemical senses. The understanding of brain cells or rather mind is only achieved through DBS, nanogel sends the pulses through motor areas of an individual brain giving signals of thought. Some other study suggested making two nanowires meeting subthalamic region through the cortex region region for better understanding of mind [47]. It is increasingly important to use DBS method to understand brain functions and also treat brain diseases. Many neurological conditions such as depression, obsessive compulsive disorder, Tourette syndrome and other disease can be understood and cured [51]. This new found knowledge can help in interpretation of neuron signals to build even advanced implants for brain[52]. Below graph shows several publications on brain study[49].

Graph 2: Shows several publications on brain study.



Another pie chart showing several areas of brain functions through DBS[29].

Pie chart 1: Showing several areas of brain functions through DBS.



Brain augmentation issues with ethics

Ethics play a major role when augmenting mind. Different perspective to look into is health and safety, autonomy in privacy matters and future to the augmentation[51]. Health risks possess problem only when there is a lack of knowledge of an individual and nanoparticles accumulation time when it is longer[49-51]. Normally health does not pose risk when augmenting the mind. But concerns always arise with nanoparticles injected or implanted, and also drugs side effects. But these concerns have already been addressed while designing the drugs[51]. Only regulatory measure should be taken care is use of nanomaterials and their size limitations. Accumulation of these nanomaterials in brain is another aspect. By looking into these steps, health of an individual is addressed[50]. Autonomy and privacy issues adhere to the individual's knowledge to track thoughts, experience and overall brain activity of self. The right to privacy is to get access to all information in their mobile device. Thus, the ethical issues can be addressed for augmentation[51].

Conclusion

The future of nanotechnology is to foresee new developments in treatments of brain diseases. The complete elimination of brain diseases is the goal of augmenting brain. Brain capacity and potential can be enhanced. The adverse side effects of present drugs

can be kept under check. The exponential knowledge with nanoparticles can show interests in further study of brain cells. Brain augmentation shows innovative and promising approach to help brain reach its full potential and also show promising results in developing new nanoparticles and nanocapsules. It also helps in clinical improvements of brain and its diseases. Finally these applications concentrate on giving concrete solutions of applications of nerve cells to read and control the mind. It paves the way for new investments in brain augmentation.

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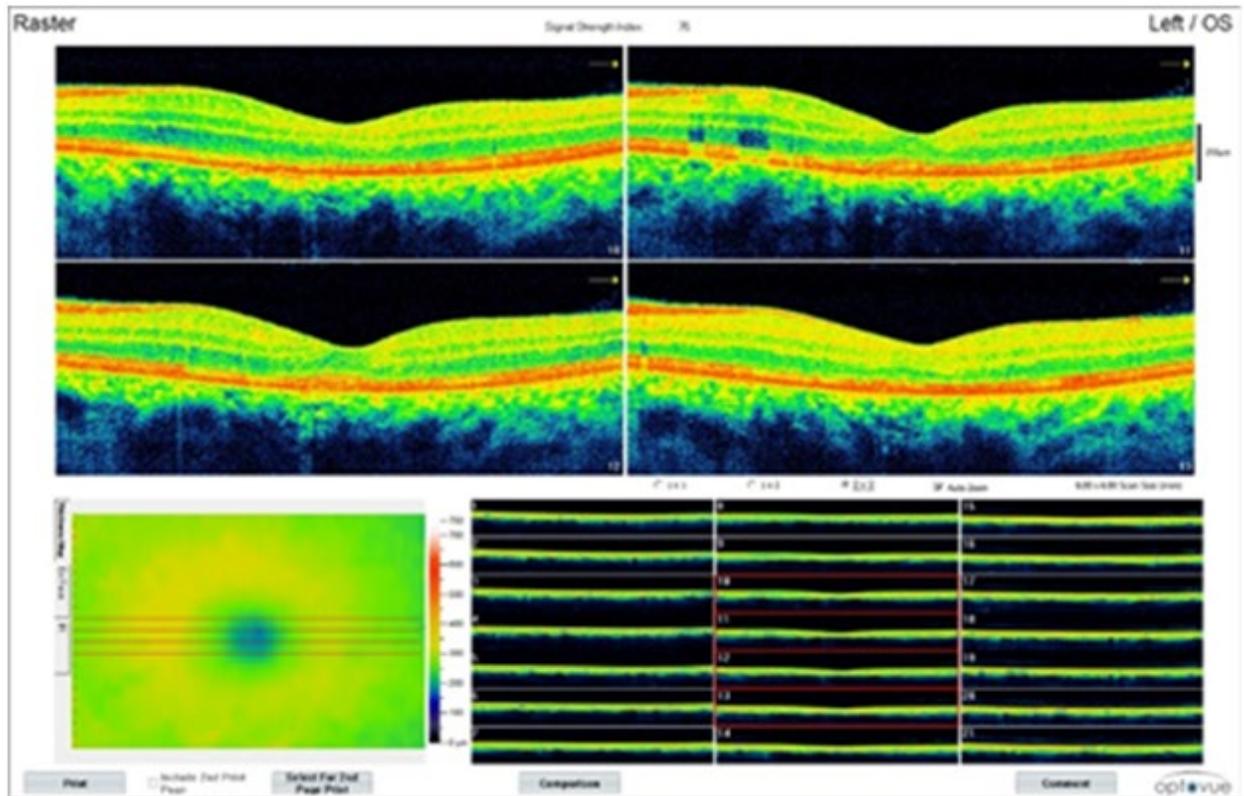
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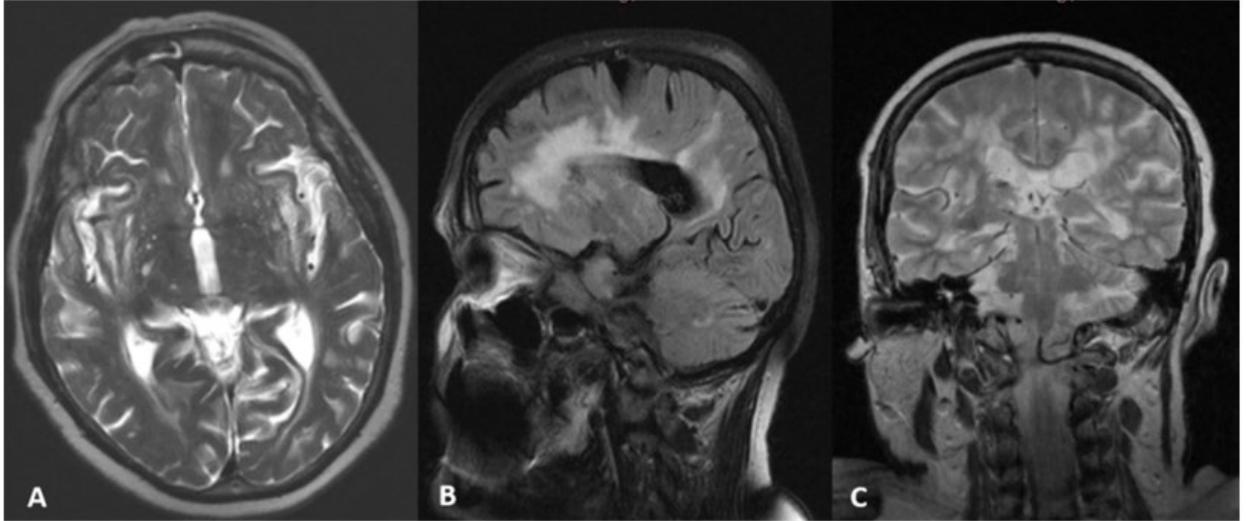
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Prithiv kumar

Researcher

My publication with Maples is an excellent experience. I would like to express my appreciation to the journal team for their prompt response and excellent service. The immediacy and speed with which the manuscript was handled for final publication after it had been accepted was second to none! I will continue to submit my valuable research work to Maples publication and have no hesitation to strongly recommend the same to any researcher who wishes to publish his or her research work in a reputable publication outlet with a niche for quality, excellence, and widespread reach.



Vikas Reddy.G

Researcher

For me, publishing in your journal was very experiencing. It was my first time that the publication process had went so smoothly from the time of submission until the finalization of the peer-review process. I would certainly continue to keep publishing with maples in the future and wish all the success in their future endeavors.



Rami A. Shahrer

Editor

"I am pleased to serve and editorial board member of the Journal of Anesthesia and Surgical Research. I am grateful to have this opportunity to work with many world-renowned to advance clinical and basic science related to clinical, surgical practices, researches, and clinical education. The Journal of Journal of Anesthesia and Surgical Research is an Open Access Journal conformed by a professional group of researchers fully committed to the journal and with the dissemination of the work from the international clinical and research community. Although it is a recent journal, the publication process is very smooth and agile. The task of publication is rabid and accomplished within a given time frame, which is a critical issue due to the time many journals in the field take for the review of a manuscript."



Stefan Bittmann

Executive Editor

The work with Maples Pub is constantly inspiring. Publishing in your journal is of great scientific interest for me. The Journal of Regenerative Biology and Medicine picks up important studies up to date. Fast proof and fast publication fits perfect to my research work about pediatrics and to date, COVID-19. Thanks to the whole team.



Adamu Ningi

Researcher

I found this journal to be exceptionally good. The review process is highly professional and the publication process smooth and satisfying. This will surely be the destination for manuscripts from me and my friends.



Edetanlen Ben-lance Ekaniyere

Researcher

It has been great and wonderful working with the editorial team of the journal of dentistry and oral sciences. They have been so supportive from the stage submission to publication of my manuscript. Moreover, the publication charges were fair to those of us in the developing countries. I considered my publication with the journal a rare privilege and my satisfactions know no bound. I am glad to recommend this journal to my colleagues.



Carolle-Laure KPOUMIE

Editor-MEDICAL RESEARCHER

I am serving as A MEMBER OF EDITORIAL BOARD OF MAPLES SCIENTIFIC PUBLISHERS. With the role of editor, medical researcher, also reviewer and author, after this year with the team of this journal, it is a pleasure to collaborate, to congratulate all the team for all the achievements, I'm satisfied because of all the serious, the engagement, the rapid, quick and excellent handling of the manuscript. I also appreciate the specificity of the journal to be polyvalent, to be involved in different discipline as internal medicine, emergency, surgery, immunology, medical and clinical research, and others; The journal publishing process is perfect, the rapid editing, the rapid review and critical approach is appreciated. It is exciting to be a part of this team, to continue collaboration for the growth of this open-access journal.



Omar K. Danner

Researcher

It has been a pleasure working with you and the Journal of Clinical and Medical Research. The Journal and the editors have been very supportive, responsive, and patient in helping to get our article properly submitted and accepted for publication. We found the submission and publishing process to be fairly easy. The Managing Editor was always polite and willing to assist in anyway. The JCMR has been very accommodating and willing to honor the authors requests with fanfare. We are very pleased with the service we received.



Svetlana Moisa

Researcher

To be a good researcher, first of all, it is necessary to study a lot of scientific literature based on your area of research interest, which is available or publish before you. This journal aims to publish the work of eminent scientists, whose investigations are reliable suit for practice use. For young researchers it will be a good platform, to help them to find their own way in science, scientific style, and language. I strongly recommend this journal for researches from all around the world.



Sibylle Kietaibl

Researcher

Our experience with the publication process in the Journal of Anesthesia and Surgical Research is highly positive: fast handling of the submission, constructive critique in the review process, competent proof preparation and appealing publication design. Thank you.



Attapon Cheepsattayakorn

Editor

As an Editor of the Journal of Immunology and Allergy, it is my great pleasure and feel very proud to work with the staff of this much impressively qualified academic journal. Our journal regularly provides quick and excellent handling of the manuscript. The peer review is excellent, constructive and invaluable addressing significant problems within the manuscripts, and of course our technical expertise is quite competent. Publishing with the Journal of Immunology and Allergy, is perfect-quick editorial decision, rapid editing of the proofs and helpful communication. The speed and ease with which the review process is unrolled are appreciated by our authors. Very useful interactive References are suggested by our Reviewers that can save a lot of the author(s)'s time; this also allows making the author(s)'s work better argued and stylistically improved. All our services provided by the Journal of Immunology and Allergy's editorial office are prompt and perfectly clear. With our excellent journal management, I strongly hope that our journal will get it more indexing in the world standardized databases.



Prof. Francesco Vetta

Editor

Being invited to be part of the Editorial Board of this scientific journal, with the role of Executive Editor was an honor. After the first weeks of this experience I can say with satisfaction that the editorial line is rewarding in its innovation. This scientific journal has a specific merit: that of encouraging interaction between colleagues, even from different disciplines. This allows a unique cultural growth, based on multifactoriality, rather than on a scotomized organocentric vision, now anachronistic. It is exciting to contribute to the continuous growth of this journal that is gradually acquiring the appearance of an intellectual cenacle. Therefore, given the climate of absolute friendliness that is at the basis of the rapid growth of the journal, I invite with great pleasure all Researchers to share their results in our magazine.



Dr. Anubha Bajaj

Editor

This is to specify that I have had an extensive and detailed interaction with the Editorial team of the Journal of Biomedical and Allied Research lasting over a significant period of time. My interaction has been extremely pleasant as I find the communication quite inspiring and crystal clear. The attitude of fore said individuals is quite helpful and guiding in pertinent instances. It has been a commemorative journey so far working with the Journal and I hope that the symbiosis will continue, evolve and flourish in the forthcoming years. I wish the journal, related personnel and a fore mentioned individual a fruitful, successful run.



Dr. Akhil k Padmanabhan

Researcher

Medical literature constantly needs contributions from aspiring researchers which is visible and easily available to the health care professionals and academicians. Journal of Anesthesia and Surgical Research provides a platform to showcase the works of eminent authors thus contributing to the progress and melioration of medical science. I strongly recommend this journal for research scholars from across the globe.



Diana Ened Rodriguez Zaragoza

Researcher

For us publishing in your Journal has been one of the greatest experience since it was the first time we submitted an article in another language. We felt very supported by the editors and we were so

exicted to see our work in your journal due to that publication we got the attention from our endodontic society. We hope to have more articles to share with you. We are very thankful that as an independent researchers you kindly opened the doors for us and trusted in our work. Thanks a lot!



NARESH WARAN

Researcher

"The increase in scientific studies needs more detailed or focused journals. In my opinion the Journal of Regenerative Biology and Medicine is very relevant and promising. The issues of research, diagnosis and treatment under consideration are novel, which is of great interest to researchers and doctors around the world.

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Contact Info

Mapsci Digital Publisher OPC Pvt Ltd.

Sector 75 - Mohali

286A/1-Shaurya Garden

&

Imneet Kaur,

Patti mall, VPO Dala, Moga

Punjab, India

+647-901-4607

+91-6397277006

contact@maplepub.com

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